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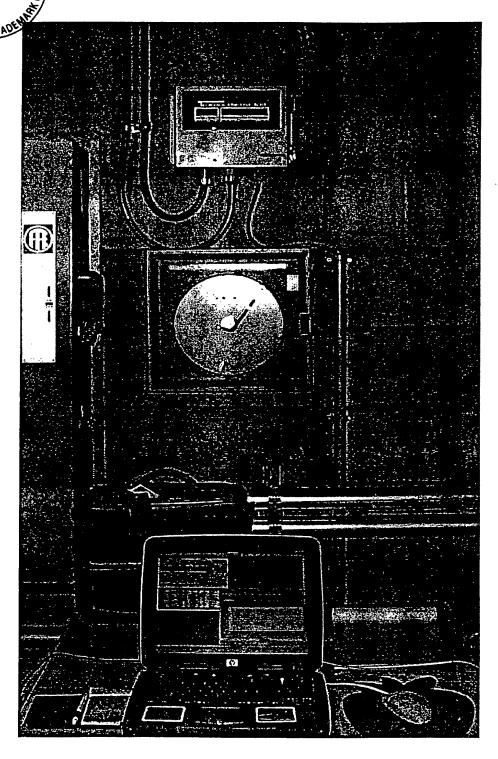
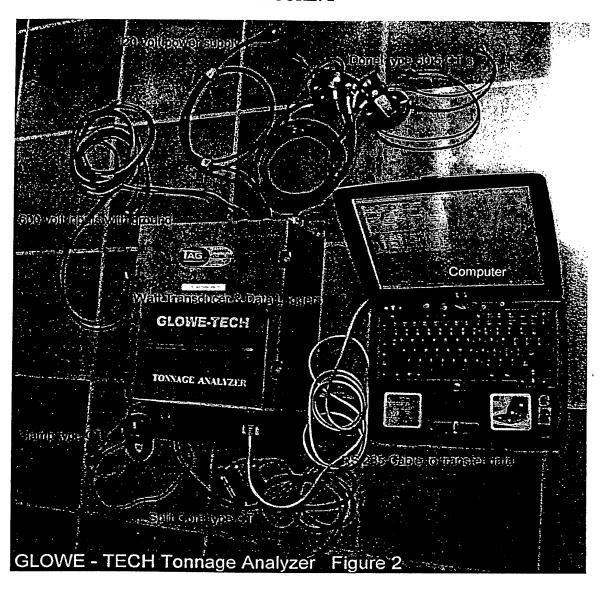


FIGURE 1

Typical set-up with computer recording live data converted to tonnage with belt scale monitor (top unit) showing actual tonnage moving over conveyor

FIGURE: 2



- Item 1: 600 volt input wires for line 1, 2 & 3 for watt transducer & ground wire
- Item 2: Donut type 50:5 CT's for current input to watt transducer
- Item 3: 120 volt power supply wire for watt transducer
- Item 4: Clamp type CT for ampere method to collect data for tonnage conversion
- Item 5: Split-Core CT for ampere method to collect data for tonnage conversion
- Item 6: Instrument case with Watt Transducer installed
- Item 7: Instrument case with ACR Data logger installed
- Item 8: RS235 Cable to transfer data to computer
- Item 9: Lap-top computer to collect data
- Item 10: Screen showing live data and for display of Real-Time graph of data in Tonnes converted from kilowatts or amps

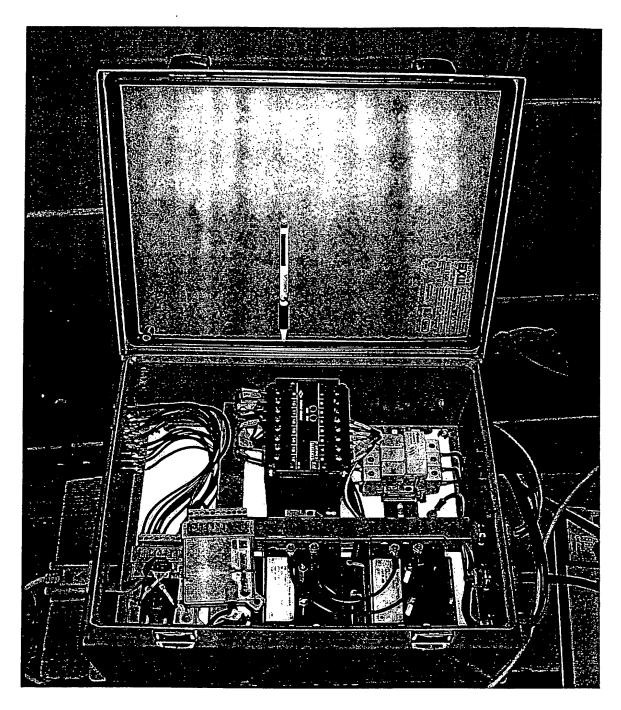


FIGURE 3:

GLOWE-TECH Tonnage Analyzer – Portable model with 2 Data Loggers capable of monitoring up to a total of 14 conveyor motors

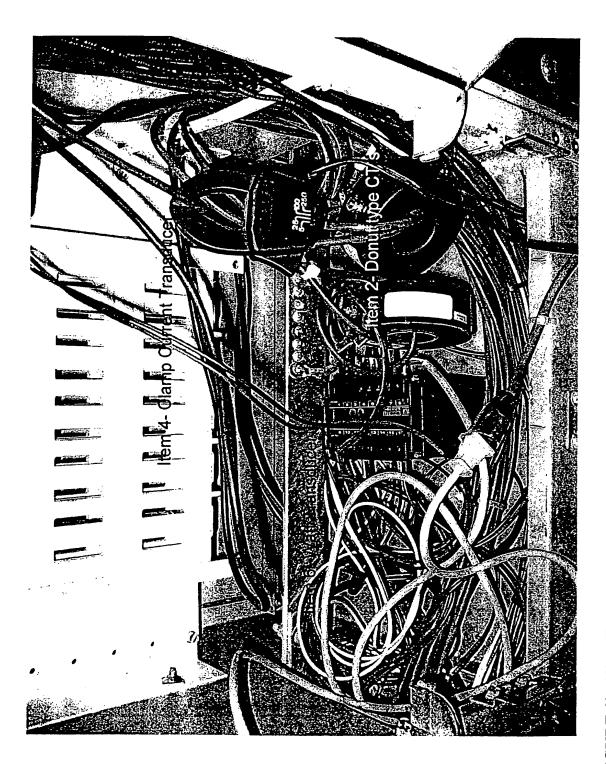
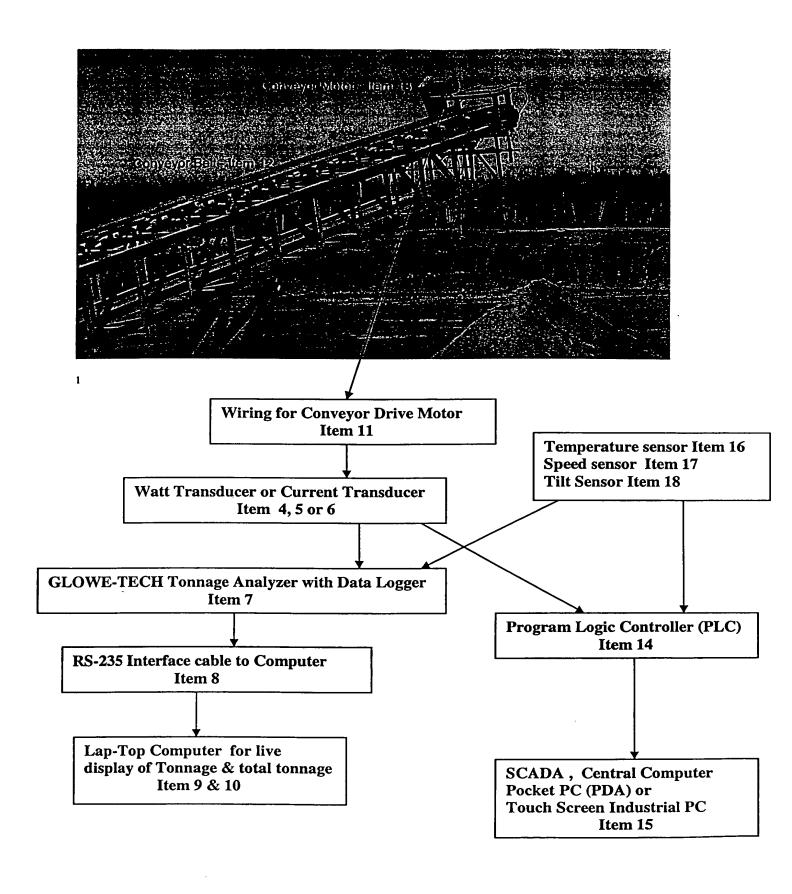


FIGURE 3b: Watt Transducer installation for Typical Conveyor Motor showing Clamp CT installed too



'FIGURE: 4 Schematic of Typical Conveyor Belt Motor Tonnage Conversion

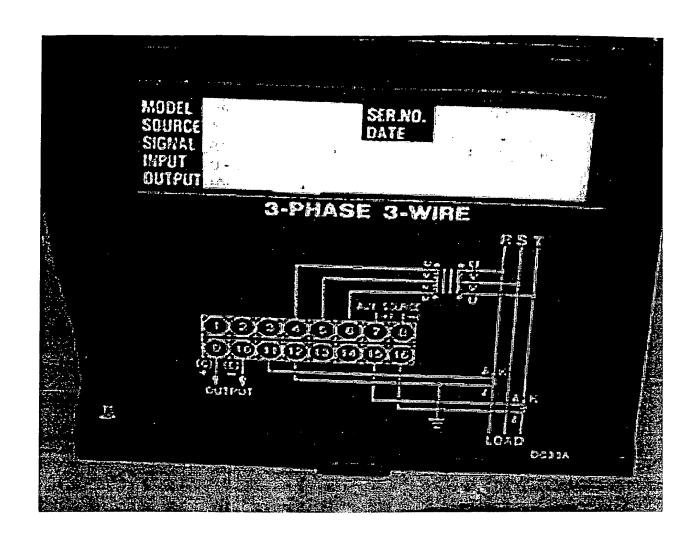
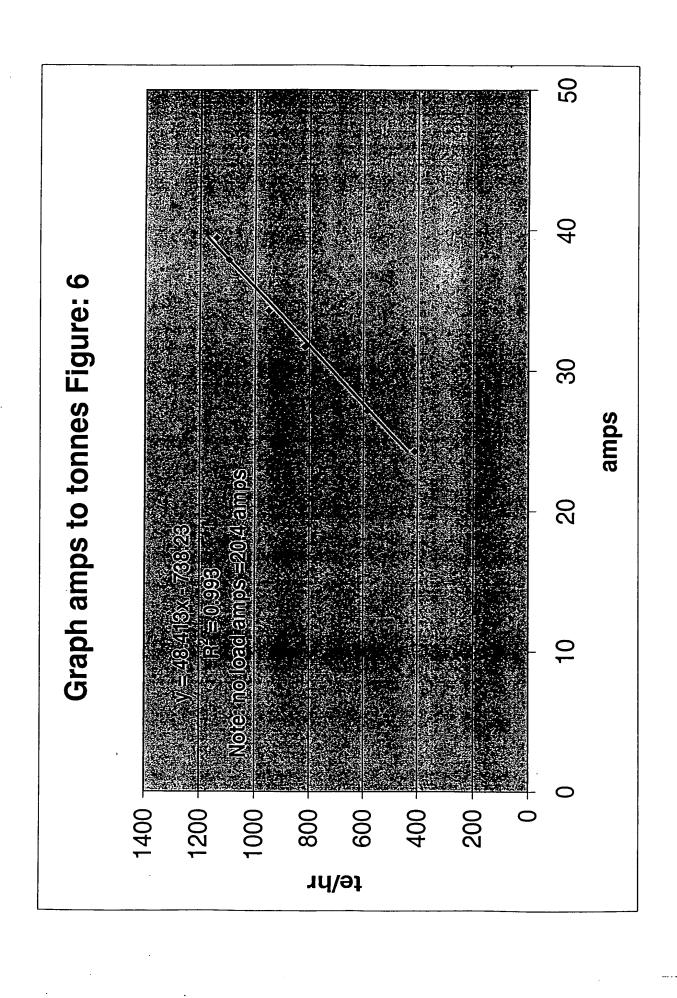


FIGURE: 5
GLOWE-TECH Typical wiring diagram for Watt Transducer



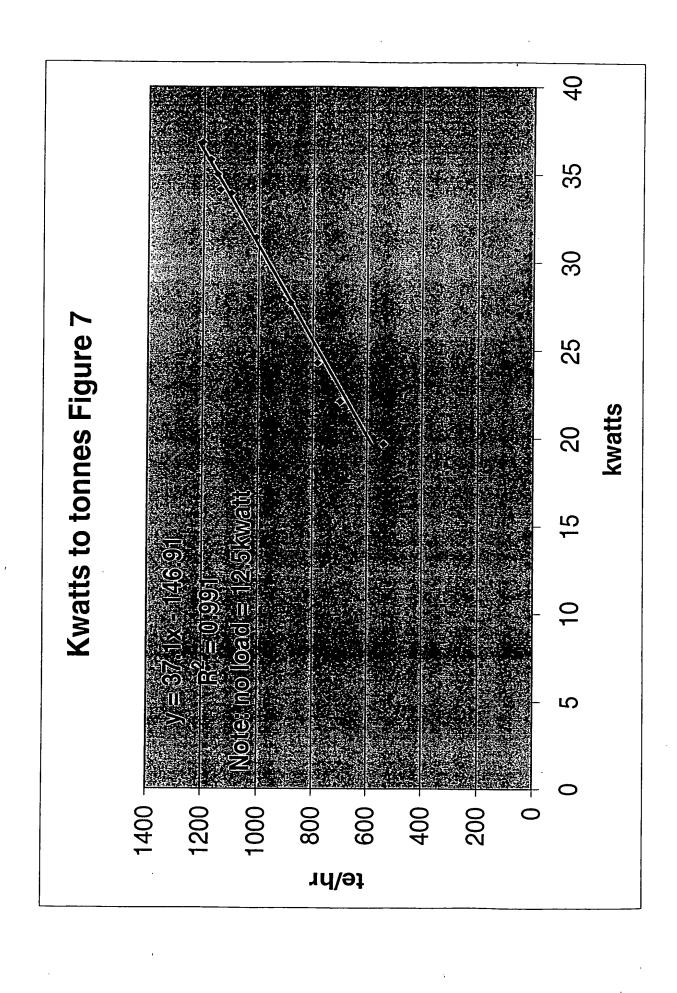


FIGURE: 8

Summary of Tonnage for Typical Conveyor using kwatts to tonnes

Date	Truck Count	actual Belt Scale tonnes	Corrected Belt Scale tonnes	kwatts conversion to tonnes	difference tonnes	amps conversion to tonnes	difference tonnes
15-Apr	126	6474.10	6474.10	6470.914	3.19	0	0
16-Apr	185	9552.40	9552.40	9404.079	148.32	9676.29	-123.89
17-Apr	145	7730.90	7730.90	7499.33	231.57	7753.309	-22.41
18-Apr	180	9451.50	9539.50	9412.356	127.14	9638.428	-98.93
19-Apr	166	8560.00	8665.00	8553.628	111.37	8737.455	-72.45
22-Apr	173	9138.00	9386.15	9447.105	-60.96	9465.383	-79.24
23-Apr	197	10453.00	10692.49	10717.322	-24.84	10323.369	369.12
24-Apr	159	7982.00	7982.00	8125.574	-143.57		
25-Apr	163	3705.00	3738.90	3773.876	-34.98		
26-Apr	164	8537.00	8757.00	8933.782	-176.78		
29-Apr	149	8150.00	8346.70	8418.175	-71.47		
30-Apr	156	8272.00	8482.00	8504.899	-22.90		
1-May	191	9901.00	10123.00	10138.142	-15.14		
2-May		10552.90	10758.00	10777.447	-19.45		
TOTAL		118459.80	120228.13	120176.629	51.50		

NOTE: Belt Scale tonnage was corrected for tonnage being added from April 18 to April 24th then taking off tonnage due to removal of rock end April 24 which had fallen on belt scale NOTE: Apr 24 to May 2 scale was taking tonnes from scale display at 15 to 25 te/hr NOTE:kwatt calibration formula used as per graph is 37.1x -146.91 for all readings April 15 to May 2 NOTE: Amp calibration formula used as per graph is 48.413x-738.13 for all readings

۶.

FIGURE 8b

Comparison Table showing difference in GLOWE-TECH Tonnage Analyzer Readings with Milltronics Belt Scale Readings

ime Start-Up time Pro hours tim 0.064
1.813 0.064 5.490 2.176 0.196 8.558
0.027
0.044
0.007
0.031
0.080
0.011
600.0
0.00
0.00
0,138
6,009
32.374 0.750 98.464

Note: Data taken from a conveyor belt feeding a secondary crusher. Note: Potential of up to 33.124 hours of new production availabe in recording period.

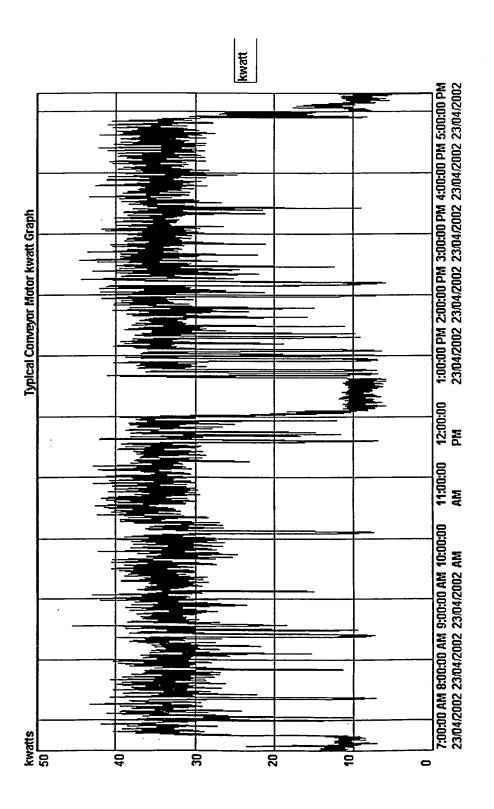


FIGURE: 9 kilowatt graph

FIGURE 10

TYPICAL Quarry Kwatts Converted to Tonnage Summary report

							5237.696 tonnes totalized	-25.3040 tonnes	Tons/hr on					1.254	1.313	1.227	1.237	1.211	0.999	0.890	0.844	0.741	
10.000 Degrees Celcius 17.000 Degrees Celcius 13.600 21.000	iours	iours	iours	watts	e/hr	onnes	onnes		tonnes/hour on	•				564.102	590.888	552.198	556,662	544.758	449.521	400.414	379.581	333.451	
10.000 [17.000 [13.600 21.000	2.242 hours	0.018 hours	9.434 hours	17.308 kwatts	555.233 te/hr	5263.000 tonnes	5237.943 tonnes	-25.057	Conditioned kwatt					17.453	17.893	17.258	17.331	17.136	15.574	14.768	14.426	13.670	
	134.533 minutes	1.067 minutes	11.676 hours						Count Over-load	1 0	1 0	1		0	0	0 0	0	0	0	0	0	0	1 0
Temperature am Temperature pm No load kwatt = Start up kwatts =	•	1.00	11.6		ıla		:er =		Actual Kwatt Count Readings As No-Load	0.1464615	0.1708718	0.1464615		17.45333	17.89272	17.25805	17.33128	17.136	15.57374	14.7682	14.42646	13.66974	13.03508
,- ,- ,- ,-	Time No-Load kwatt	Time Start-Up kwatts	Total Production time	Average kwatt for day	Average Tonnage by formula	Actual Scale Reading	Total tonnage by GT analyzer	difference	Time of data Reading	0:05	28/02/2003 6:00:13	28/02/2003 6:00:21	Break	28/02/2003 17:39:17	28/02/2003 17:39:25	28/02/2003 17:39:33	28/02/2003 17:39:41	28/02/2003 17:39:49	28/02/2003 17:39:57	28/02/2003 17:40:05	28/02/2003 17:40:13	28/02/2003 17:40:21	28/02/2003 17:40:29

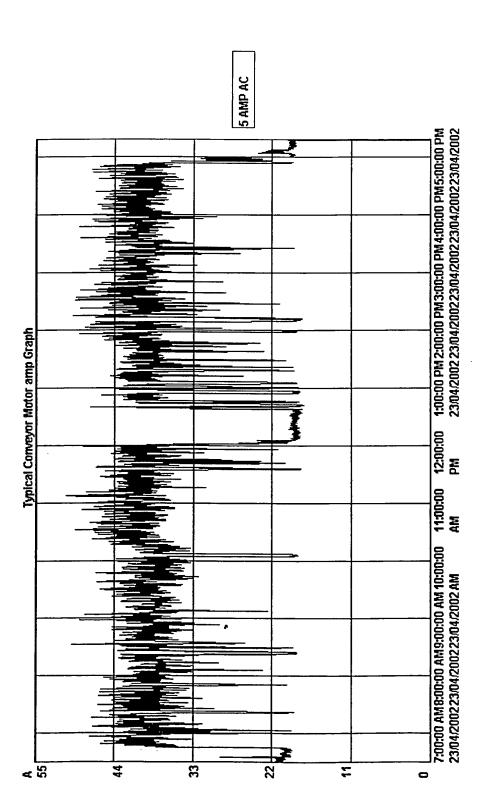


FIGURE: 11 amp Graph

FIGURE 12	n 5240.7003 tonnes totalized -56.700 tonnes	Tons/hr on conveyor	0.9533 0.9311 0.9644 0.9482 0.8637 0.7831 0.6451 0.5585 0.4317 0.3189
	degrees C degrees C 1.156 hours 0.098 hours amps total hr production amps connes 6 tonnes 00 tonnes -56.756 tonnes	6	
	9.000 15.000 25.000 80.000 10.553 496.592 5240.756 5184.000	Tons/ hour on conveyor	428.974 419.006 433.959 426.709 388.646 352.395 290.316 251.347 194.253 143.502
ummary	66.787	Conditioned Amps	60.226 59.259 60.710 60.007 56.314 52.797 46.774 42.993 37.453 32.530
to tonnage Summary	No load current = Start up current = 69.33 minutes 5.87 minutes 11.709 hours	Count > startup Amps 1 0 1 0 1	000000000
TYPICAL Quarry Amps to	Temperature am Temperature pm Time no load amps Time at start-up amps Total Recording Time Average current for day = Average Tonnage by formula = Total tonnes by Instrument Total tonnes by scale Difference	Actual Count no Time of reading Amps load 12/02/2003 6:00:04 20.30774 12/02/2003 6:00:12 20.26378 12/02/2003 6:00:20 20.26378 BRFAK	12/02/2003 17:41:00 60.22648 12/02/2003 17:41:08 59.25929 12/02/2003 17:41:16 60.71008 12/02/2003 17:41:24 60.00667 12/02/2003 17:41:32 56.31374 12/02/2003 17:41:40 52.79667 12/02/2003 17:41:48 46.77369 12/02/2003 17:42:04 37.45346 12/02/2003 17:42:04 37.45346 12/02/2003 17:42:12 32.52956 12/02/2003 17:42:20 27.60566

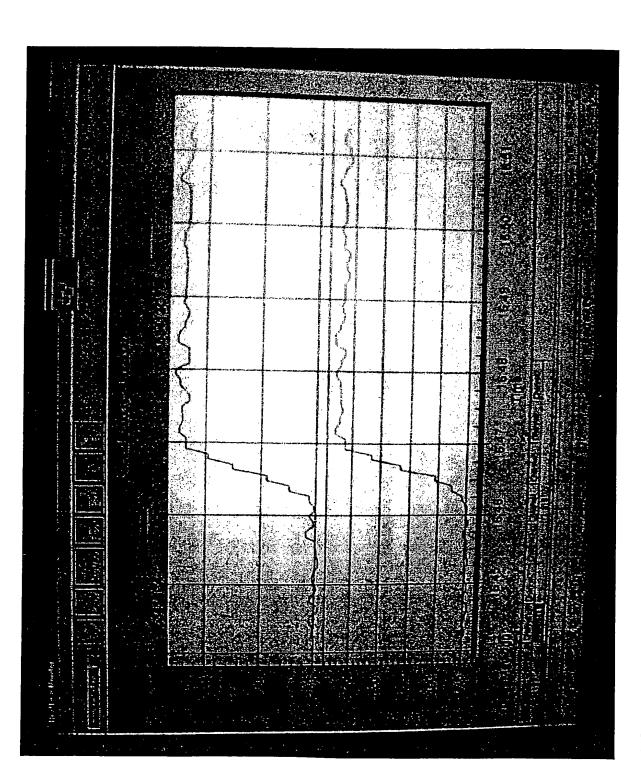


FIGURE 13a: - Typical Real Time Graph showing te/hr converted from Watt Transducer and a Real Time Graph of Amperage readings from the same Conveyor motor for parallel conversion to Tonnage for demonstration purposes.

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	Y	8	၁	٥	E	ட	ပ	Ξ	_	-	×	1
-	Typical Daily co	conversion kilowatts to tonnes Aug 5, 2003	watts to	o tonnes	Aug 5, 2000		Callbratio	Calibration Formulas		Dobradel & Microbial Colores of the siles of		
7							655.406	655.406 Ideal Formula Number	er	:		
ო							590,903	590.303 01/08/2018, formula 1		!		
4		No load kwatt		Motor	7.40	7.403 kwatts	631.737	631.737 01/09/2015, formula 2				
S		Peak kwatts			33.80	33.800 kwatts	652.916	652.916 Jun 20,03, Formula 3	currently used			
ဖ	Time No-Load kwatt	=	10,667	10.667 minutes	0.17	0.178 heures						
. 2	Time Start-Up kwatts	z	0.00	0.000 minutes	0.0	0.000 heures	ļ .				•	i
ဆ	Total Production time	e E	3.536	3.536 hours	3.35	3.358 heures						
6	Average kwatt for day	ay		Motor	26,41	26,412 kwatts	No-Load (No-Load Original reading	7.300 kwatts	owatts		
6	Average Tonnage by formula	y formula			649.77.	649.772 te/hre	New No-IC	New No-load reading	7.403 kwatts	owatts		
Ξ							649.772	649.772 New Formula	.0.103 k	0.103 kwatts difference	rence	
5	Tonnage by belt scale	ale	1		2201.00	2201.000 tonnes est						
⊕	Total tonnage by GT analyzer	T analyzer -			2182,07	2182,077 tonnes	2192,345	2192,345 tonnes based on orlginal formula	inal formula	:		
7	Difference				18.92	18.923 tonnes	8.655	8.655 tonnes difference				
15	Percentage difference	jce Lce			% 098'O	* 0	0.393 %	*			:	
_	Time of data	Actual Kwaff Count	Count			Conditioned tonnes/hr on	_	(e/hc	No-Load	:		
T		Reading	No-Load	Peak-load	kwatt	conveyor	totalized	No-Load Time	Reading			1
_		-0.07618	1					05/08/2003 7:19:22	7.03132	6.965	6.965 Average kw	3
		10.84231	0				6.49	0.400 05/08/2003 7:19:30	7.12659	0.233	0.293 Std dev	
-1		12.55725	0				0.515	05/08/2003 7:19:38	7.62202	7.403	7.403 1.5 std dev	\$
		14.48180	0			2 290.409	0.645	0.645 05/08/2003 7:19:46	6.95510	7.550	7.550 2.0 std dev	2
į	05/08/2003 6:16:58	17.18760	0	0		3 372,625	0.828	0.828 05/08/2003 7:19:54	6.95510			
j		20.75088	0				1.069	05/08/2003 7:20:02	7.16470			
ន	05/08/2003 6:17:14	25.01919	0	0	25.019	9 610.588	1.357	05/08/2003 7:20:10	7.06943	:		•
1583	1593 05/08/2003 9:46:34	29.17316			L	3 736.806	1.637					1
1594	1594 05/08/2003 9:46:42	29.02073	0	-			1.627	Me Anna contra sur Antos Ventados residentes desilencials con constitues		:		1
1595		28.52530				5 717.121	1.594			:		
1596		28.54435	0	0		4 717.700	1.595					
1597		30.27835	0	0	30.278	3 770.388	1.712					1
1598		29.34466		0		5 742.017	1,649					
1599		30.41174	0	0			1.721			!		,
<u>8</u>		29.49710	0	0		746.649	1.659	*				
1891		28.08703					1.564					í
1802		29.36371	0	0			1.650					
<u>8</u>	1603 05/08/2003 9:47:54	29.30655	0		79:307		1.646				i	
<u>8</u>		29.11600	0	_	29.11(1.633				i -	
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1607	1607 05/08/2003 9:48:26	29.38277	0	0	29.383	3 743.175	1,652			2_	Liose ruil sared	Ę
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Figure 13b Typical Daily Summary Table with Stable No-Load reading

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NUM SCRL z Σ 35.00 TYPICAL CALIBRATION GRAPH FOR A CONVEYOR WITH READINGS FROM DIFFERENT DAYS 30.00 25.00 Cal graph Sept 3 CV104 20.00 kwatts 15.00 $\overline{\mathbf{J}}$ y = 31.015x - 152.5610.00 $R^2 = 0.9946$ 5.00 0.0 te/hr

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100.00 G ш 28.10 28.11 28.11 26.30 25.20 27.00 30.20 27.60 27.60 27.60 27.60 27.60 Jul-15 Jul-28 Jul-30 Sep-03 ۵ 44 œ **N**62

Figure 13c

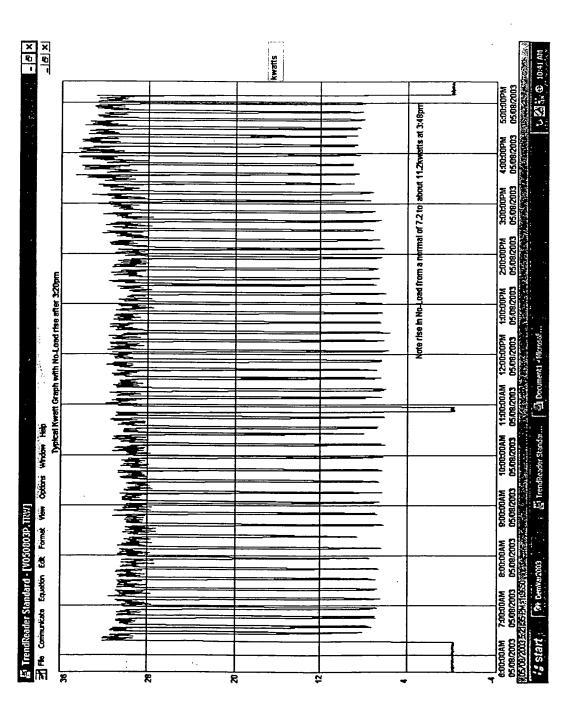


FIGURE 13d Typical Kilowatt Graph showing effect of change in No-Load caused by Friction on return side of Conveyor

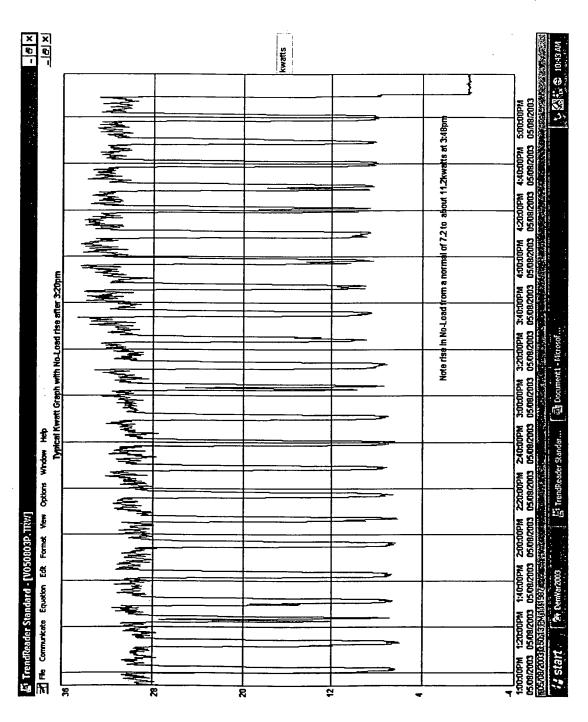


Figure 13e Enlarged view of change in No-Load readings caused by friction on Return Conveyor belt

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-	Figure 13f Typical Daily summary with No-Load Adjustment	al Daily sumr	nary wi	th No-Loa	d Adjustme	ent	Calibration	Calibration Formulas				1
~ ~			:				601,908	601,908 Ideal Formula Number				
7		No load lowatt		Motor	10 837	10 R34 kwatts	687.630	683 630 Sep-15				
2		Peak kwatts			35,00	35,000 kwatts	706.915	706.915 Jun 20.03	currently used	_		
9	Time No-Load kwatt		97.867	97.867 minutes	1.63.1	1,631 heures		The state of the s				
<u>۲</u>	Time Start-Up Invatts		0.000	0.000 minutes	0000	0,000 heures	ļ 				:	
0	Total Production time	Je L	10.89	10.89 hours	9.259	9.259 heures						
ο̈́υ	Average kwatt for day	y.		Motor	28.189	28.189 kwatts	No-Load O	No-Load Original reading	7.30	7.300 kwatts		
₽	Average Tonnage by formula	y formula			599.534	599.534 te/hre	New No-lo	New No-load reading	10,834	10.834 kwatts	• •	
=							599.534	599.534 New Formula	3.534	3.534 kwatts difference	erence	
12	Tonnage by belt scale	8			5573.000	5573.000 tonnes est						
£	13 Total tonnage by GT analyzer =	analyzer =			5551,023	5551.023 tonnes	6574.309	6574.309 tonnes based on original formula	ginal formula			
14	Difference				21.977	21.977 tonnes	-1001,309	-1001,309 tonnes difference				
5	Percentage difference	8			0.394 %	-	# 136.71·	*				
	Time of data	Actual Kwatt	Count	Sount	Conditioned	Conditioned tonnes/hr on		ATTENDED TO THE ATTENDED PRINT THE P	No-Load			
5		Reading No-Load Peak-load kwatt	No-Load	Peak-load	kwatt	conveyor		totalized No-Load Time	Reading			
12	05/08/2003 6:16:26	-0.07618	_	0				05/08/2003 15:46:18	9,7764	9.711	9.711 Average km	3
18		10.84231	0	0			0.400	0.400 05/08/2003 15:46:26	3 × 9 0 0 0 9 7 5		0.748 Std dev	
19	05/08/2003 6:16:42	12.55725	0	0	12.557		0.515	0.515 05/08/2003 15:46:34	9.4(3)9		10.834 1.5 std dev	∂ ;
8		14.48180	0	0			0.645	0.645 05/08/2003 15:46:42	10/15633		11.208 2.0-std dev	\$
≂	05/08/2003 6:16:58	17.18760	0	0	17.188	372.625	0.828	0.828 05/08/2003 15:46:50	* 11 26 S2		ļ .	٠
8	905 05/08/2003 17:08:10	F 72 7541		0	32.736	845.077	1.878					•
4906	906 05/08/2003 17:08:18	Z530/Z	0	0			1.833					l
4907	907 05/08/2003 17:08:26	11.00 CO. 11.00		0			1.884					
4908	908 05/08/2003 17:08:34	100000	0	0	29.097	734.491	1.632			_		
4909	909 05/08/2003 17:08:42	2.082.80	0	_	26.239	į	1.439	,				
4910	910 06/08/2003 17:08:50	22000	0	0	22.028		1.155					
4911	911 05/08/2003 17:08:58	M85/15/14/8	0	0	15.758		0.732					
4912	912 05/08/2003 17:09:06	11,45207	J	0	11.452	198.351	0.441					
4913	913 05/08/2003 17:09:14	C. H. 17.88879	•	0				THE RESIDENCE OF THE PROPERTY				
4914	1914 05/08/2003 17:09:22			0								
4915	1915 05/08/2003 17:09:30	2007/2018	-	0								
4916	1916 05/08/2003 17:09:38	JE620 B 35 F 14	_	0								
4917	1917 05/08/2003 17:09:46	F: 7,66013		0			-	representation of the results of the control of the	Commercial Commercial Springers			[
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Figure 13f Daily Summary Showing Impact of No-Load Adjustment due to dirt build up at 3:20pm

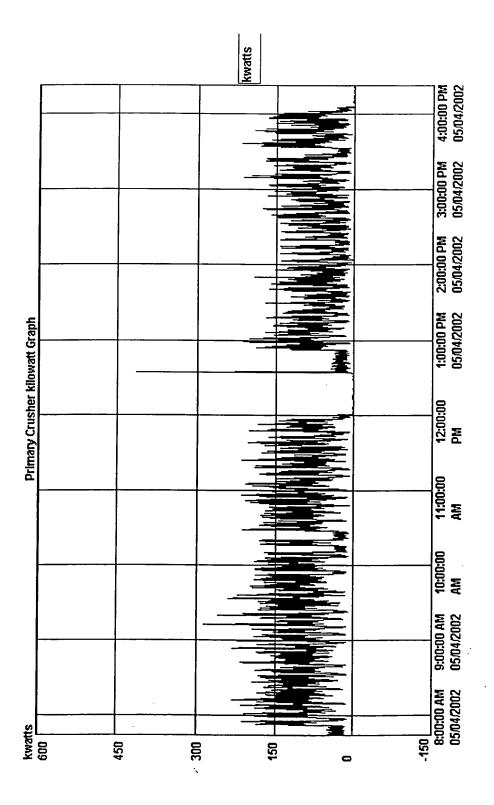


Figure 14: Typical Primary Crusher Graph

FIGURE 15

Typical Primary Crusher kwatt report

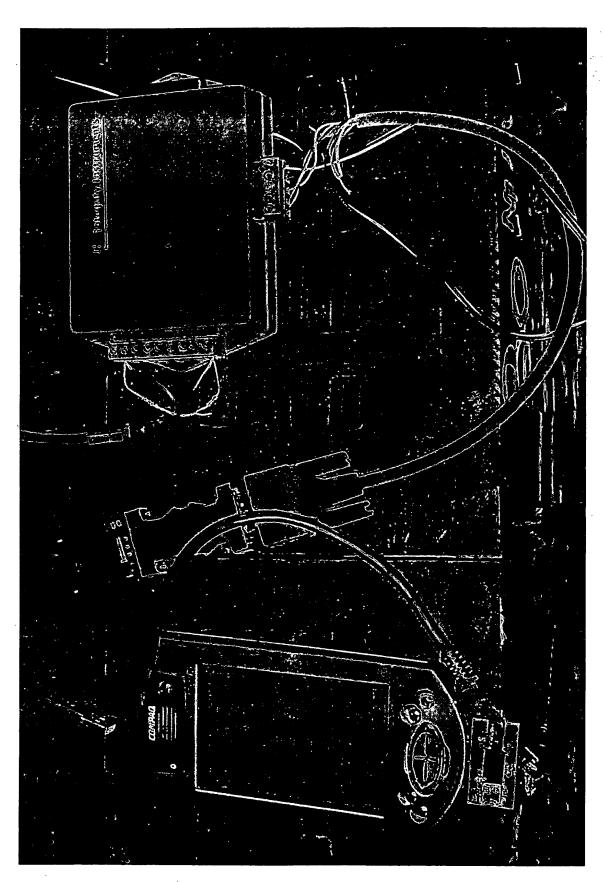
No load kwatt =		30.000	kwatts
Start up kwatts =		410.000	kwatts
Time No-Load kwatt	144.400 minutes	2.407	hours
Time Start-Up kwatts	0.133 minutes	0.002	hours
Total production time 10 hrs 23 min	10.383 hours	7.974	hours actual
Total tonnes on Primary Conveyor Belt	Scale	7713.0	tonnes
Average kwatt for day		91.785	•
Total kwatts crushing		731.906	kwatts
Total te/kwatt crushed		10.538	te/kwatt

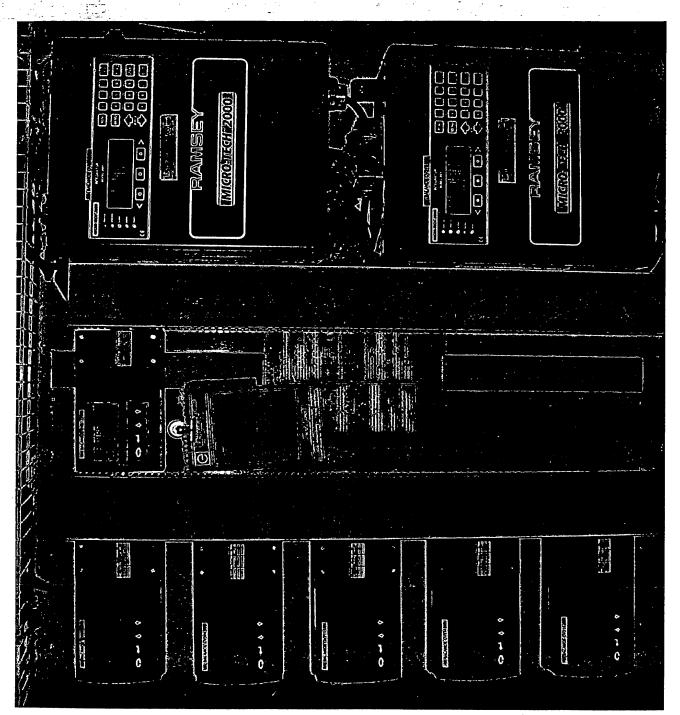
i otai te/kwatt crush			10.538 te/kwatt
	Actual Kwatt Count	Count	Conditioned
	g Reading No-Load	Over-load	kwatt
05/04/2002 7:24:33	0.811 1	0	
05/04/2002 7:24:41	4.358 1	-	
05/04/2002 7:24:49	1.520 1	•	
05/04/2002 7:24:57	0.811 1	•	
05/04/2002 7:25:05	0.811 1	0	
05/04/2002 7:25:13	2.027 1	0	
05/04/2002 7:25:21	2.939 1	0	
05/04/2002 7:25:29	3.851 1	0	
05/04/2002 7:25:37	2.230 1	0	
05/04/2002 7:25:45	3.243 1	0	
05/04/2002 7:25:53	1.317 1	0	
05/04/2002 7:26:01	2.331 1	0	
05/04/2002 7:26:09	2.939 1	0	
05/04/2002 7:26:17	1.013 1	0	
05/04/2002 7:26:25	0.811 1	0	
05/04/2002 7:26:33	1.926 1	0	
05/04/2002 7:26:41	2.534 1	0	•
05/04/2002 7:26:49	1.115 1	0	
05/04/2002 7:26:57	0.811 1	0	
05/04/2002 7:27:05	0.811 1	0	
05/04/2002 7:27:13	0.811 1	0	
05/04/2002 7:27:21	0.811 1	0	
05/04/2002 7:27:29	4.155 1	0	
05/04/2002 7:27:37	0.709 1	0	
05/04/2002 7:27:45	0.811 1	0	
05/04/2002 7:27:53	0.811 1	0	
05/04/2002 7:28:01	0.709 1	0	
05/04/2002 7:28:09	0.709 1	0	
05/04/2002 7:28:17	3.952 1	0	
05/04/2002 7:28:25	2.736 1	0	•
05/04/2002 7:28:33	0.811 1	0	
05/04/2002 7:28:41	389.056 0	0	389.056
05/04/2002 7:28:49	53.306 0	0	53.306
05/04/2002 7:28:57	55.739 0	0	55.739
05/04/2002 7:29:05	51.178 0	0	51.178
05/04/2002 7:29:13	41.247 0	0	41.247

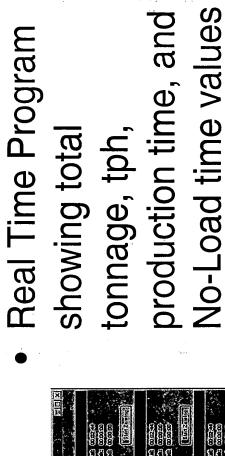
FIGURE 16

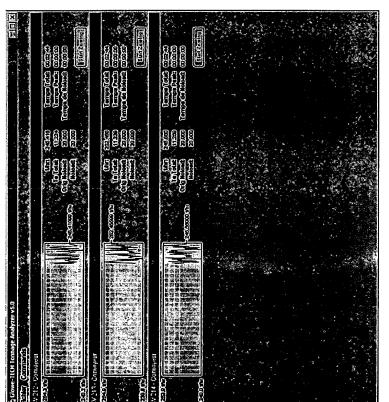
TYPICAL QUARRY Kwatts Tonnage report With TEMPERATURE Effect

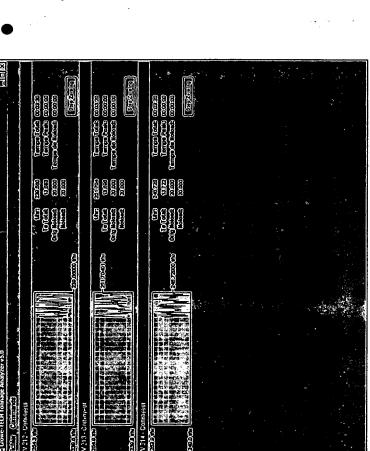
-6.800 Degrees Celcius -5.700 Degrees Celcius Conversion formula temperature 12.400 203.846 Feb-13 -19 21.000 222.018 Jan-30 -15 0.167 hours 309.306 ideal		586.941 tonnes totalized 1.9410 tonnes	Tonnes on conveyor	0.804	0.698	0.583	0.493	0.464	0.452	0.497	0.518	0.501	0.534	0.542	0.559	0.563
-6.800 Degrees Celcius -5.700 Degrees Celcius 12.400 21.000 0.167 hours 0.000 hours	watts e/hr	onnes onnes onnes	Conditioned tonnes/hour on kwatt	361.916	314.021	262.442	221.916	209.020	203.494	223.758	232.968	225.600	240.337	244.021	251.389	253.231
-6.800 Degre -5.700 Degre 12.400 21.000 0.167 hours 0.000 hours 1.891 hours	14.018 kwatts 310.794 te/hr	587.814 tonnes 2.814 tonnes	Conditioned 1 kwatt	0 14.695	0 14.060	0 13.377	0 12.840	0 12.669	0 12.596	0 12.864	0 12.986	0 12.889	0 13.084	0 13.133	0 13.230	0 13.255
10.000 minutes 0.000 minutes 2.058 hours			Count Over-load	0	0	0	0	0	0	0	0	0	0	0	0	0
Temperature am Temperature pm No load kwatt = Start up kwatts = 10.0	·	zer =	Actual Kwatta Count Reading Fee No-Load	14.69497	14.06031	13.37682	12.8398	12.66892	12.59569	12.86421	12.98626	12.88862	13.0839	13.13272	13.23036	13.25477
Time No-Load kwatt Time Start-Up kwatts Total Production time	Average kwatt for day Average Tonnage by formula	Total tonnage by GT analyzer =	Time of data Reading	03/04/2003 14:07:38	03/04/2003 14:07:46	03/04/2003 14:07:54 BREAK	03/04/2003 16:09:46	03/04/2003 16:09:54	03/04/2003 16:10:02	03/04/2003 16:10:10	03/04/2003 16:10:18	03/04/2003 16:10:26	03/04/2003 16:10:34	03/04/2003 16:10:42	03/04/2003 16:10:50	03/04/2003 16:10:58



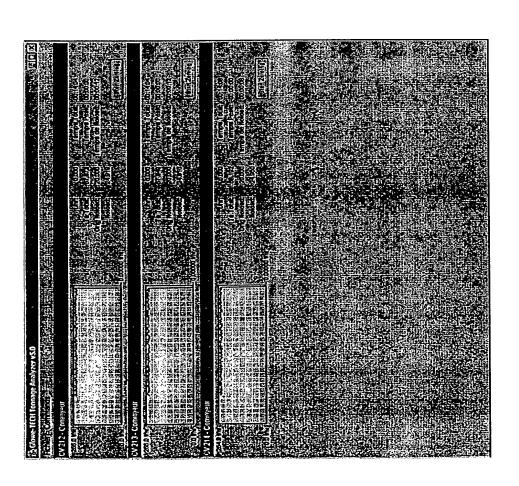




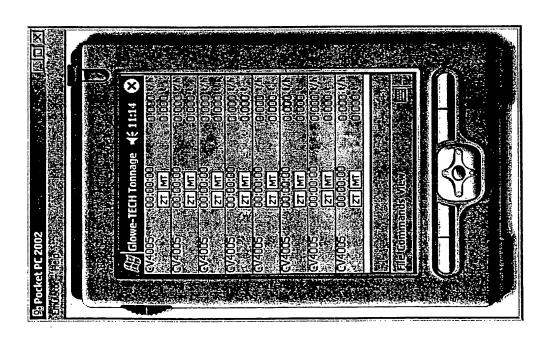




Zero test activated as shown in Red

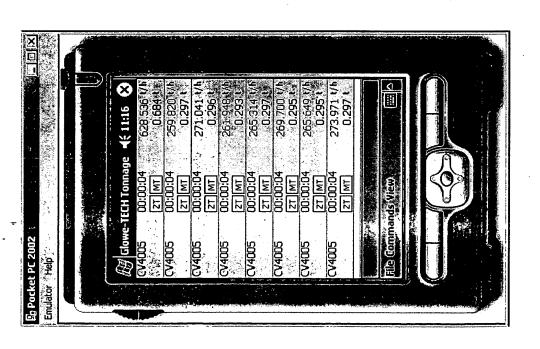


Zero test
 completed and
 program re calibrated

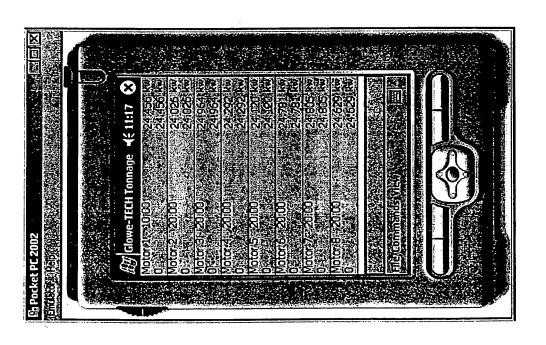


Startup showing 8
 channels of data

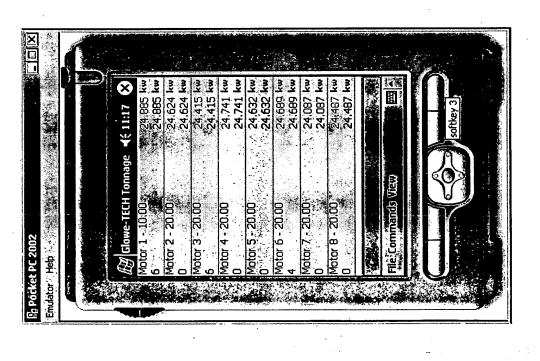
 display for crusher or conveyors in Real
 Time mode



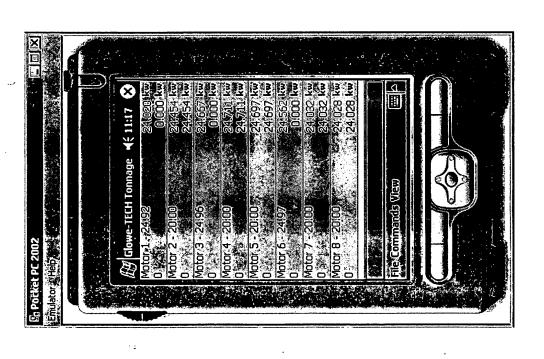
 Running with tonnage values totalized and shown as tph, updated every second.



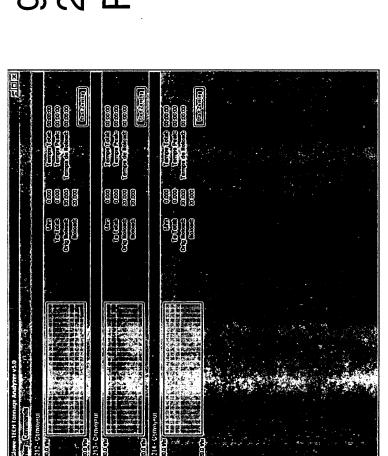
Crusher or conveyor
 Motor view with kwatt
 values displayed prior
 to Zero Test.



 Motor view with kwatt values and a zero test in progress for motors 1, 3, and 6



Motor view with kwatt
 values and finished
 zero tests with new
 No-load values for
 motors 1, 3, and 6



Program startup with graphic display of last 20 minutes of data in Real Time.

tonnage, Production time, No-Load time Daily Summary Report including Total and new No-load calibration value.

(Z) 110903 12	110903 124325.txt - Notepad			
File Edit Format Help	mat Help			
Start 11/0 End 11/0	11/09/03 12:27:28 11/09/03 12:43:22			
11/09/03				
HON H	Te Total	Temps de Production Temps de Noload	Temps de Noload	Noload
213	57.84868 57.84868	00:14:12 00:14:04	00:01:48 00:01:48	24.91902 24.90978
LV 214				24.93023
				-
				<u> </u>

Screen showing raw data input coming from Data logger with values updated every 1 second with Analog Data Logger and every 4 seconds with ACR Data logger.

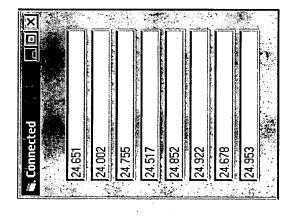


Figure 18

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